# ADVANCE INFORMATION
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# /V/\XI/V/

## Dual CMOS Analog Switches

### General Description

The MXDG421/423/425 are dual monolithic analog switches. The MXDG421 is normally closed (SPST, NC), while the MXDG423 (SPDT) and MXDG425 (DPST) have two normally-closed and two normally-open poles. These devices feature latchable logic inputs that simplify interfacing with microprocessors. All three switches offer low on resistance (35Ω max) over the analog range, fast switching (200ns max), and low power dissipation (0.035mW max). Logic inputs are TTL compatible.

The MXDG421/423/425 are designed with a +44V maximum breakdown voltage rating that allows +30V peak-to-peak switch-off blocking capacity. These switches can be used with a single positive supply (+5V to +30V) or split supplies (±5V to ±20V) while retaining CMOS logic input compatibility and fast switching.

### Applications

Sample-and-Hold Circuits

Winchester Disk Drives

Test Equipment

Communications Systems

PBX, PABX

Guidance and Control Systems

Heads-Up Displays

Military Radios

Battery-Operated Systems

### Features

- ♦ 35Ω Max r$_{DS(ON)}$
- ♦ 200ns Max Switching
- ♦ 0.035mW Max Power Dissipation
- ♦ CMOS Logic Compatible
- ♦ Operation from Single (+5V to +30V) or Bipolar (±5V to ±20V) Supplies
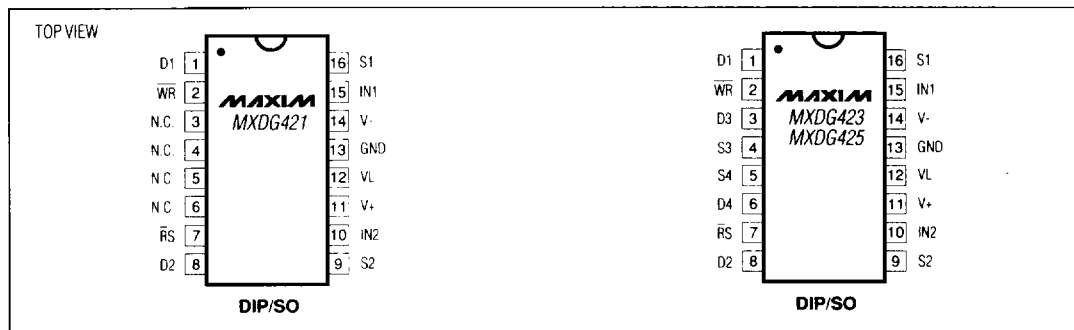- ♦ +30V Peak-to-Peak Switch-Off Blocking Capacity

### Ordering Information

| PART | TEMP. RANGE | PIN-PACKAGE |
|------|-------------|-------------|
| MXDG421C/D | 0°C to +70°C | Dice* |
| MXDG421DJ | -40°C to +85°C | 16 Plastic DIP |
| MXDG421DY | -40°C to +85°C | 16 Narrow SO |
| MXDG421DK | -40°C to +85°C | 16 CERDIP |
| MXDG421AK | -55°C to +125°C | 16 CERDIP** |
| MXDG423C/D | 0°C to +70°C | Dice* |
| MXDG423DJ | -40°C to +85°C | 16 Plastic DIP |
| MXDG423DY | -40°C to +85°C | 16 Narrow SO |
| MXDG423DK | -40°C to +85°C | 16 CERDIP |
| MXDG423AK | -55°C to +125°C | 16 CERDIP** |
| MXDG425C/D | 0°C to +70°C | Dice* |
| MXDG425DJ | -40°C to +85°C | 16 Plastic DIP |
| MXDG425DY | -40°C to +85°C | 16 Narrow SO |
| MXDG425DK | -40°C to +85°C | 16 CERDIP |
| MXDG425AK | -55°C to +125°C | 16 CERDIP** |

\*   Contact factory for dice specifications.
\*\* Contact factory for availability and processing to MIL-STD-883.

### Pin Configurations



TOP VIEW

DIP/SO (MXDG421): D1 [1] S1 [16], WR [2] IN1 [15], N.C. [3] V- [14], N.C. [4] GND [13], N.C. [5] VL [12], N.C. [6] V+ [11], RS [7] IN2 [10], D2 [8] S2 [9]

DIP/SO (MXDG423/MXDG425): D1 [1] S1 [16], WR [2] IN1 [15], D3 [3] V- [14], S3 [4] GND [13], S4 [5] VL [12], D4 [6] V+ [11], RS [7] IN2 [10], D2 [8] S2 [9]

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